PATENT COOPERATION TREATY

REC'D 3.0 MAR 2005

PCT

WIPO--- ..--

CT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P700PC00	FOR FURTHER ACTION See	e Notification of Transmittal of International Himinary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/month/yea	ar) Priority date (day/month/year)		
PCT/DK 03/00919 19.12.2003		20.12.2002		
International Patent Classification (IPC) or A61K38/18	oth national classification and IPC			
Applicant AARHUS UNIVERSITET et al.				
This international preliminary ex Authority and is transmitted to the	nmination report has been prepared to applicant according to Article 36.	by this International Preliminary Examining		
	of 7 sheets, including this cover she			
been emended and are the	e basis for this report and/or sheets con 607 of the Administrative Instruction	e description, claims and/or drawings which have containing rectifications made before this Authority ons under the PCT).		
3. This report contains indications	relating to the following items:			
Basis of the opinion				
II 🗌 Priority				
III 🖾 Non-establishment o	f opinion with regard to novelty, inve	ntive step and industrial applicability		
IV Lack of unity of inve	ntion			
V 🗵 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement				
VI Certain documents	ited			
	e international application			
VIII 🗆 Certain observation	s on the international application			
Date of submission of the demand	Date of co	mpletion of this report		
17.06.2004	24.03.20	005		
Name and mailing address of the internal preliminary examining authority:	onal Authorized	d Officer		
European Patent Office D-80298 Munich	Fayos, (
Tel. +49 89 2399 - 0 Tx: 57 Fax: +49 89 2399 - 4465	3656 epmu d	e No. +49 89 2399-2180		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis of the report

International application No.

PCT/DK 03/00919

1.	With regard to the elements of the international application (Heplacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):						
	Desc	cription, Pages					
	1-7,	9-50	as originally filed				
	8		received on 06.02.2004 with letter of 06.02.2004				
	Claims, Numbers						
	1-71		received on 19.01.2005 with letter of 19.01.2005				
	Drav	wings, Sheets					
	1/7-6	3/7	as originally filed				
	7/7		received on 06.02.2004 with letter of 06.02.2004				
2.	. With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	These elements were available or furnished to this Authority in the following language: , which is:						
☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b))							
\square the language of publication of the international application (under Rule 48.3(b)).							
	the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
3	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
	□ contained in the international application in written form.						
	☐ filed together with the international application in computer readable form.						
	\boxtimes	and the state of t					
	\boxtimes	☑ furnished subsequently to this Authority in computer readable form.					
	×	the furnished written acquance licting does not go beyond the disclosure					
	⊠	The statement that the info listing has been furnished.	rmation recorded in computer readable form is identical to the written sequence				

the description,

the drawings,

the claims,

4. The amendments have resulted in the cancellation of:

pages:

Nos.:

sheets:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK 03/00919

5.		This report has been establishe been considered to go beyond	d as if the dis	(some of) the	e amendments had not bee ed (Rule 70.2(c)).	n made, since they have
		(Any replacement sheet contain report.)	ning su	ıch amendm	ents must be referred to und	ler item 1 and annexed to this
6.	Add	itional observations, if necessar	y:			
	see	separate sheet				
						L.J., L., 12 12
		n-establishment of opinion wit				
1.	The obv	questions whether the claimed ious), or to be industrially applica	invent able h	ion appears ave not been	o be novel, to involve an invexamined in respect of:	ventive step (to be non-
	×	the entire international applicati	on,			
		claims Nos.				
		because:				
	⊠	the said international application does not require an international	n, or tl al preli	he said claim iminary exan	s Nos. 52-54 relate to the foination (specify):	ollowing subject matter which
		see separate sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. 1-71 are so unclear that no meaningful opinion could be formed (specify):					d claims Nos. 1-71 are so
	see separate sheet					
	×	the claims, or said claims Nos. opinion could be formed.	1-71 8	are so inaded	uately supported by the des	scription that no meaningful
	□ no international search report has been established for the said claims Nos.					
2.	or a	neaningful international prelimina amino acid sequence listing to co tructions:	ary exa omply	amination ca with the stan	nnot be carried out due to the dard provided for in Annex	e failure of the nucleotide and/ C of the Administrative
		the written form has not been t	urnish	ed or does n	ot comply with the Standard	
		the computer readable form ha	as not	been furnish	ed or does not comply with t	he Standard.
V.	. Re _cita	asoned statement under Artic ations and explanations supp	le 35(2 orting	2) with regar _such_stater	d to novelty, inventive ste	p or industrial applicability;
1.	Sta	atement				
	No	velty (N)	Yes:	Claims	-	
		. , ,	No:	Claims	-	
	Inv	rentive step (IS)	Yes:	Claims	-	
			No:	Claims	-	
	Inc	lustrial applicability (IA)	Yes:	Claims	-	

IN'	TERN	OITA	IAL	PREL	ANIMI.	RY
ΕX	AMIN	IOITAL	N RE	POR	T	

International application No.

PCT/DK 03/00919

No: Claims

Citations and explanationssee separate sheet

INTERNATIONAL PRELIMINARY International application No. PCT/DK 03/00919 EXAMINATION REPORT - SEPARATE SHEET

Re Ite	<u>m l</u>		
Basis	of the	report	

1- New claims 1-71 do not go beyond the subject matter of the application as originally filed. In fact, the newly filed claims 1-71 only amount to editorial changes with no real changes having regard to the subject matter claimed.

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- Claims 52-54 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).
- 3- As indicated in the international search report (see PCT/ISA/210), the search has been limited to those parts of the claims which appear to be clear, supported and disclosed, namely, those parts relating to the agents which have been specified in present claims 17-20 and 22-25.
 - According to Rule 66.1(e) PCT, no international preliminary examination will be carried out with regards to the subject matter which is not covered by the search report.
- Independently of the above reasoning, it is submitted that claims 1-16, 21, 26, 33-45, 61-63, 67-71 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter in terms of the result to be achieved, without providing the technical features (agents which are to be used, defined in technical terms (e.g. structurally) are not indicated) necessary for achieving this result. In addition, there is no technical support in the description as required by Article 6 PCT, for all the possible agents encompassed by the claims. These claims lack also disclosure (Art. 5 PCT), since the skilled person, after reading the description, would not able to perform the invention over the whole area claimed without undue burden and without needing inventive skill. It would require undue experimentation (be an undue burden) to randomly screen undefined compounds

INTERNATIONAL PRELIMINARY - International application No.--PCT/DK 03/00919 EXAMINATION REPORT - SEPARATE SHEET

with potentially limitless structural possibilities for the claimed activity.

The terms "binding to", "interfering with" and "modulating" do not provide the claimed agent with technical features. There are mere functional statements which do not provide the skilled person with information to carry out the invention over the whole area claimed without undue burden.

- 4.1- These claims do not meet the requirements of Arts. 5 and 6 PCT. They are so called "reach-through" claims wherein protection is sought for embodiments not yet identified. No examples are disclosed in the application as originally filed for all the possible agents encompassed by the claims, hence no claims to such products nor their possible uses can be allowed.
- 5- The present application provides no examples to technically support the claims, contrary to Art. 6 PCT: no examples have been provided that any of the compounds encompassed by the claims has indeed a therapeutic effect in the treatment of a disease, as alleged in the claims (only 3 agents have been tested p75, TrkA and Sortilin and none has been shown to be effective in the treatment of a disease).
- 6- Second medical use claims 1, 3-32, 45, 61-63, 69, as presently worded are not acceptable under Art. 84, EPC. The therapeutic application is functionally defined by a mechanism of action ("modulating the activity of at least one neurotrophin and / or a proneurotrophin") which does not allow any practical application in the form of a defined, real treatment of a pathological condition (disease) (C-IV, 4.2).
 - Only claims 2, 33-44 define a disease, and can therefore be assessed as "second medical use" claims. Present claims 1, 3-32, 45, 61-63, 69, in the way they are formulated, are to be understood as "first medical use" claims.
- 7- With regards to the claims which specify the diseases to be treated, it is to be noted that it appears contradictory that by both decreasing or increasing the activity of a neurotrophin and / or proneurotrophin (see claims 3-4), the same diseases can be treated. Because of the fact that these claims are dependent on claims 3-4, it can be understood that the claimed diseases can be treated by either decreasing the activity (claim 3) or increasing the activity (claim 4) of at least one neurotrophin and / or a

INTERNATIONAL PRELIMINARY International application No. - PCT/DK 03/00919 EXAMINATION REPORT - SEPARATE SHEET

- proneurotrophin. Because of their dependency to claim 1, (and therefore also to claims 3, <u>and</u> 4), the claims which-specify a disease to-be treated (e.g. claims 2, 33-44)-do not meet the requirements of Art. 6 PCT.
- 8- Finally, it is noted that although claims 1, 46, 52, 55, 61, 64, 66, 67, 69, 70 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and/or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

9- In view of the above objections (Art. 5 and 6 PCT), no opinion is to be given with regards to the novelty, inventive step and industrial applicability of the subject matter of claims 1-71.

·5··

10

20

Claims

- 1. Use of an agent capable of
 - (i) binding to a receptor of the Vps10p-domain receptor family and/or
 - (ii) interfering with binding between a receptor of the Vps10p-domain receptor family and a neurotrophin and/or proneurotrophin and/or
 - (iii)modulating the expression of a receptor of the Vps10p-domain receptor family;

in the manufacture of a medicament for use in a method for treatment of a disease or disorder by modulating the activity of at least one neurotrophin and/or a proneurotrophin in an organism, such as an animal.

- The use according to claim 1, wherein said medicament is for the treatment of a neurological disease or disorder, such as a neural disorder.
 - 3. The use according to any of the preceding claims, wherein the modulation is a decrease of the activity.
 - 4. The use according to any of claims 1-2, wherein the modulation is an increase of the activity.
- 5. The use according to any of the preceding claims, wherein the neurotrophin is selected from neural growth factor (NGF), brain derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3), neurotrophin-4/5 (NT-4/5).
 - 6. The use according to claim 5, wherein the neurotrophin is NGF or BDNF.
- 7. The use according to any of the claims 1-4, wherein the pro-neurotrophin is selected from pro-NGF, pro-BDNF, pro-NT-3 or pro-NT-4/5.
 - 8. The use according to claim 7, wherein the pro-neurotrophin is pro-NGF or pro-BDNF.

. 2

- 9. The use according to any of the preceding claims, wherein the animal is a mammal.
- 10. The use according to claim 9, wherein the mammal is a human being.

5

- 11. The use according to any of the preceding claims, wherein the receptor is selected from SorLA, Sortilin, SorCS1, SorCS-2, or SorCS-3.
- 12. The use according to claim 11, wherein the receptor is Sortilin.

10

- 13. The use according to any of the preceding claims, wherein the agent is selected from proteins, peptides, polypeptides, antibodies, antisense RNA, antisense DNA or organic molecules, SiRNA.
- 15 14. The use according to any of the preceding claims, wherein the agent is capable of inhibiting binding of said neurotrophin or said pro-neurotrophin to the receptor.
 - 15. The use according to any of the preceding claims, wherein the agent is capable of binding to an extracellular part of the receptor.

20

- 16. The use according to any of the preceding claims, wherein the agent is an antibody directed against, an extracellular part of the receptor, an intracellular part of the receptor, or a transmembrane part of the receptor.
- 17. The use according to claim 16, wherein the agent is an antibody directed against a peptide comprising a sequence having SEQ ID NO: 1 amino acid residues 612-740.
- 18. The use according to any of the claims 1-15, wherein the agent is a peptide comprising a sequence having SEQ ID NO: 1 amino acids 24-77 or a variant thereof, said peptide being capable of binding to the receptor.
 - 19. The use according to claim 18, wherein the variant is selected from one or more of the following sequences: SEQ ID NO: 2 amino acid residues 29-81 (propart from SorLa).

15

20

25

35

3-----

- 20. The use according to claim 18, wherein the peptide comprises one or more of the following sequences SEQ ID NO: 6 amino acid residues 19-121 (propart for NGF), SEQ ID NO 7 amino acid residues 19-127 (propart for BDNF), SEQ ID NO: 8 amino acid residues 17-124 (propart for neurotrophin-3 (NT-3), SEQ ID NO: 9 amino acid residues 25-80 (propart for neurotrophin-4 (NT-4) or a fragment or a variant thereof, said peptide being capable of binding to the receptor.
- 21. The use according to claim 1 or 20, wherein the agent is a peptide comprising a Sortilin receptor-binding sequence of proNGF.
 - 22. The use according to claim 20, wherein the agent is a peptide comprising the sequence SEQ ID NO: 6 amino acid residues 19-121 (the sequence from the pro-part of NGF) or a variant thereof, said peptide being capable of binding to the receptor.
 - 23. The use according to claim 21, wherein the agent is a peptide consisting of the following sequence SEQ ID NO: 6 amino acid residues 19-121 (propeptide of proNGF).
 - 24. The use according to any of the claims 1-15, wherein the agent is a peptide having the sequence of SEQ ID NO: 10 or SEQ ID NO: 11, or a fragment or a variant thereof, said peptide being capable of binding the receptor.
 - 25. The use according to any of the claims 1-15 wherein the agent is a peptide comprising an NGF variant or a Sortilin-receptor binding fragment of said NGF variant.
- 26. The use according to claim 24, wherein the peptide is capable of binding Sortilin and stimulating the activity of the Sortilin receptor.
 - 27. The use according to any of claims 1-13, wherein the variant is selected from one or more of the following sequences: SEQ ID NO: 2 amino acid residues 47-66.

15

- 28. The use according to any of claims 1-13, wherein the variant is selected from one or more of the following sequences: SEQ ID NO: 13
- 5 29. The use according to any of the claims 1-13, wherein the agent is a fragment or variant of RAP (receptor-associated protein – SEQ ID NO. 12)
 - 30. The use according to claim 29, wherein said agent is from 20 to 60 amino acids and contains the preferred domain amino acid positions 219-323 of receptor-associated protein.
 - 31. The use according to any of the claims 1-13, wherein the agent is a peptide comprising a sequence having SEQ ID NO: 1 amino acids 34-77 or a variant thereof, said peptide being capable of binding to the receptor
 - 32. The use according to any of the claims 1-13, wherein the agent is a peptide comprising a sequence having SEQ ID NO: 1 amino acids 50-70 or a variant thereof, said peptide being capable of binding to the receptor.
- 33. The use according to claim 1, wherein the disease or disorder is selected from one or more of the following diseases or disorders: inflammatory pain, diseases or disorders of pancreas, kidney disorders, lung disorders, cardiovascular disorders, various types of turnours, psychiatric disorders or neuronal disorders.
- 34. The use according to claim 1, wherein the disease or disorder is selected from Alzheimer's disease, Parkinson's disease, Huntington's chorea, stroke, ALS, peripheral neuropathies, necrosis or loss of neurons, nerve damage to trauma, kidney dysfunction, injury, and the toxic effects of chemotherapeutics used to treat cancer and AIDS, aberrant sprouting in epilepsy, schizophrenia, pancreas or lung injury and/or dysfunction, injury and/or dysfunction of the central and/or peripheral nervous systems.
 - 35. The use according to claim 1, wherein the disease or disorder is selected from peripheral neuropathy, distal sensorimotor neuropathy, or autonomic neuropathies, such as reduced motility of the gastrointestinal tract or atony of the

15

25

30

35

5_

urinary bladder, post-polio syndrome or AIDS-associated neuropathy; hereditary neuropathies, such as Charcot-Marie-Tooth disease, Refsum's disease, Abetalipoproteinemia, Tangier disease, Krabbe's disease, Metachromatic leuko-dystrophy, Fabry's disease, and Dejerine-Sottas syndrome, depression, mania or Down's syndrome.

- 36. The use according to claim 1, wherein said medicament is for the development, maintencence, or regeneration of neurons in an individual.
- 37. The use according to claim 1, wherein said medicament is for the treatment of nerves damage caused by any of the following: trauma, burns, kidney dysfunction or injury, pancreatic dysfunction or injury, lung dysfunction or injury, injury to fatty tissue, or the toxic effects of chemotherapeutics used to treat cancer and AIDS.
 - 38. The use according to claim 1, wherein said medicament is for the treatment of a disorder of the central and/or peripheral nervous system that is associated with neuron degeneration or damage.
- 20 39. The use according to claim 1, wherein said medicament is for the treatment of any of the following: Alzheimer's disease, Parkinson's disease, Huntington's chorea, stroke, ALS, peripheral neuropathies.
 - 40. The use according to claim 1, wherein said medicament is for the treatment of human neurodegenerative disorders, such as Alzheimer's disease, Parkinson's disease, epilepsy, multiple sclerosis, Huntington's chorea, Down's Syndrome, nerve deafness, and Meniere's disease.
 - 41. The use according to claim 1, wherein said medicament is for the treatment of a motoneuron disorders, such as amyotrophic lateral sclerosis (Lou Gehrig's disease), Bell's palsy, and various conditions involving spinal muscular atrophy, or paralysis.
 - 42. The use according to claim 1, wherein the disease or disorder is a neuropathy, such as peripheral neuropathy.

20

25

30

35

P 700 PC00

- 43. The use according to claim 1, wherein the disease or disorder is depression or mania.
- 5 44. The use according to claim 1, wherein said medicament is to be used as a cognitive enhancer, such as to enhance learning in individuals suffering from dementia or trauma.
- 45. The use according to any of the preceding claims, wherein the agent is administered in an amount of from 1 μg/kg to about 100 mg/kg per day.
 - 46. An in vitro method for screening for a compound which alters the binding of at least one neurotrophin and/or a pro-neurotrophin to a receptor of the Vps10p-domain receptor family,
 - a) providing an assay for measuring the binding of a neurotrophin and/or a proneurotrophin to a receptor of the Vps10p-domain receptor family
 - b) adding the compound to be tested to the assay, and
 - determining the amount of a neurotrophin and/or a pro-neurotrophin bound to the receptor of the Vps10p-domain receptor family, and
 - d) comparing the amount determined in step c) with an amount measured in the absence of the compound to be tested,
 - e) wherein a difference in the two amounts identifies a compound which alters the binding of neurotrophins and/or pro-neurotrophins to the receptor of the Vps10p-domain receptor family.
 - 47. The method according to claim 46, wherein the neurotrophin or pro-neurotrophin is as described in any of claims 5-8:
 - 48. The method according to any one of claims 46-47, wherein the receptor is as described in any of claims 11-12.

20

25

30

- 49. The method according to any one of claims 46-48, wherein the neurotrophin and/or pro-neurotrophin is capable of binding to an extracellular part of the receptor, an intracellular part of the receptor or a transmembrane part of the receptor.
- 50. The method according to any one of claims 46-49, wherein the receptor is expressed in a cell and/or presented on a cell plasma membrane.
- 51. The method according to claim 50, wherein the cell is selected from peripheral neurons, central neurons, primary cultures of neuronal cells, neuron-derived cell-lines and transfected cells capable of expressing and/or presenting a receptor of the Vps10p-domain receptor family.
- 52. A method for determining the effect of an agent on activity of neurotrophins and/or pro-neurotrophins in cells expressing a receptor of the Vps10p-domain receptor family, said method comprising the steps of
 - a) administering said agent to a mammal naturally expressing the receptor,
 - b) measuring the activity of neurotrophins and/or pro-neurotrophins in said mammal,
 - c) comparing the measurement of step b) with a measurement obtained in the absence of the compound to be tested,
 - d) wherein the difference in the two measurements identifies the effect of said agent on the activity of neurotrophins on cells presenting receptors of the Vps10p-domain receptor family.
 - 53. The method according to claim 52, wherein said method further comprises administering said agent to a mammal lacking expression of said receptor.
 - 54. The method according to claim 53, wherein said mammal only lacks expression of said receptor in one or more selected tissues.

..**8** .

55. A method for modulating the transport of at least one neurotrophin and/or proneurotrophin out of, into or within a cell line expressing a receptor of the Vps10p-domain receptor family,

5

comprising administering a sufficient amount of an agent capable of binding a receptor of the Vps10p-domain receptor family.

10

15

- 56. The method according to claim 55, where the modulation comprises an increase in the anterograde transport of the neurotrophin and/or pro-neurotrophin in the neuron.
- 57. The method according to claim 55, where the modulation comprises a decrease in anterograde transport of the neurotrophin and/or pro-neurotrophin in the neuron.
- 58. The method according to claim 55, where the modulation comprises an increase in the retrograde transport of the neurotrophin and/or pro-neurotrophin in the neuron.

20

59. The method according to claim 55, where the modulation comprises a decrease in retrograde transport of the neurotrophin and/or pro-neurotrophin in the neuron.

25

60. The method according to any one of claims 55-59, wherein the agent is as defined in any of the claims 1-32.

30

61. Use of an agent capable of binding a receptor of the Vps10p-domain receptor family in the manufacture of a medicament for use in a method for treatment of a animal by modulating the transport of at least one neurotrophin and/or proneurotrophin out of, into or within a cell expressing a receptor of the Vps10p-domain receptor family in said animal, said method comprising administering to said animal a sufficient amount of said agent.

15

25

35

g

- 62. The use according to claim 61, wherein said agent is as defined in any of claims 1-32.
- 63. The use according to any of claim 61-62, wherein said modulation is as defined in any of claims 56-59.
 - 64. A method of isolating a compound capable of altering the binding of at least one neurotrophin and/or proneurotrophin to a receptor of the Vps10p-domain receptor family comprising the steps of
 - a) screening a compound as defined in any of claims 46-60
 - b) selecting a compound altering the binding of at least one neurotrophin and/or pro-neurotrophin to a receptor of the Vps10p-domain receptor family,
 - c) isolating the compound of step b).
 - 65. The method of claim 64 further comprising the step of refining the isolated compound/reducing the toxicity of the isolated compound.
- 66. A method of producing a pharmaceutical composition comprising the steps of claims 64 or 65 and further the step of formulating the refined compound/compound with reduced toxicity with a pharmaceutically acceptable carrier or diluent.
 - 67. Use of an agent as defined in any of claims 17-32 for the preparation of a medicament.
 - 68. The use according to claim 67; wherein said agent is a soluble receptor of the Vps10p-domain receptor family or a fragment or a variant thereof.
- 30 69. Use of a soluble receptor of the Vps10p-domain receptor family or a fragment or a variant thereof for the preparation of a diagnostic agent for the diagnosis of neurotrophin and/or pro-neurotrophin related diseases.
 - 70. A pharmaceutical composition comprising an agent as defined in any of claims 17-32 and a pharmaceutically acceptable carrier.

P 700 PC00

10

71. The pharmaceutical composition according to claim 70, wherein said agent is a soluble receptor of the Vps10p-domain receptor family or a fragment or a variant thereof.

This Page is inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
□ COLORED OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LIVES OR MARKS ON ORIGINAL DOCUMENT
REPERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
OTHER:

IMAGES ARE BEST AVAILABLE COPY.
As rescanning documents will not correct images problems checked, please do not report the problems to the IFW Image Problem Mailbox